

## Stephansen, Stanley

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**From:** Newman, Thomas <Thomas.Newman@hdrinc.com>  
**Sent:** Tuesday, June 13, 2017 9:31 AM  
**To:** Boulet, Aimee; Mahoney, Keith; Peter J. Young; Walker, Don  
**Cc:** Cholewka, Nicholas; Chao, Dorothy; Oommen, Chris (coommen@hazenandsawyer.com)  
**Subject:** RE: NY/NJ HEP: NJDEP / NYSDEC / HDR-HQI -- Recommended SOD / Ultimate CBOD Protocols/Methods  
**Attachments:** CBA\_SOP\_FluxCoreCollection4\_20170613.docx

Keith-

The attached file contains some high-level language from the sediment-flux task of the Jamaica Nitrogen PCM project, and also the sediment-flux SOP from our subconsultant, Chesapeake Biogeochemical Associates (CBA) for the work we are about to begin. This SOP is being incorporated into an FSAP and so is still considered draft. Note: this work is focused on specific fluxes and not simply classical "SOD" or CBOD5 and so may not be entirely applicable for what Rick is looking for.

Tom

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**From:** Boulet, Aimee [mailto:Aimee.Boulet@aecom.com]  
**Sent:** Tuesday, June 13, 2017 8:29 AM  
**To:** Mahoney, Keith; Newman, Thomas; Cholewka, Nicholas; Peter J. Young; Walker, Don  
**Cc:** Cholewka, Nicholas; Chao, Dorothy; Oommen, Chris (coommen@hazenandsawyer.com)  
**Subject:** RE: NY/NJ HEP: NJDEP / NYSDEC / HDR-HQI -- Recommended SOD / Ultimate CBOD Protocols/Methods

Hi Keith: Attached is the Comprehensive Field Sampling and Analysis Plan. Page 15 addressing CBOD5 although there isn't a lot of detail about the specific collection of CBOD5 versus the collection of the bacteria samples. SOD sampling procedures are described on Page 16 and in greater detail in Attachment A.

Thanks.  
Aimee

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**From:** Mahoney, Keith [mailto:[kmahoney@dep.nyc.gov](mailto:kmahoney@dep.nyc.gov)]  
**Sent:** Tuesday, June 13, 2017 7:34 AM  
**To:** Thomas Newman; Cholewka, Nicholas; Peter J. Young; Walker, Don; Boulet, Aimee  
**Cc:** Cholewka, Nicholas; Chao, Dorothy  
**Subject:** Fwd: NY/NJ HEP: NJDEP / NYSDEC / HDR-HQI -- Recommended SOD / Ultimate CBOD Protocols/Methods

Could we share our SOP's on SOD and CBOD5?

----- Original message -----

From: "Winfield, Richard" <[Winfield.Richard@epa.gov](mailto:Winfield.Richard@epa.gov)>  
Date: 6/12/17 3:44 PM (GMT-05:00)  
To: "Mahoney, Keith" <[kmahoney@dep.nyc.gov](mailto:kmahoney@dep.nyc.gov)>, "Ranheim, Beau" <[BeauR@dep.nyc.gov](mailto:BeauR@dep.nyc.gov)>  
Subject: FW: NY/NJ HEP: NJDEP / NYSDEC / HDR-HQI -- Recommended SOD / Ultimate CBOD Protocols/Methods

**NJDEP / NYSDEC / HDR-HQI**

USEPA as a member of the NY/NJ HEP is hoping to work with IEC and the USEPA's Edison Laboratory to collect supplemental data this summer in support the historical water quality modeling work undertaken for both HEP & LISS for both DO/Nutrients and pathogens.

We'd like to determine if we can arrive at a consensus set of protocols/methods for:

1. Sediment Oxygen Demand  
*(we hope to delineate lateral & longitudinal variation in the system & compare it to historical data)*
2. Ultimate CBOD & 5day CBOD – WWTP influent & effluent and major Tributaries  
*(we hope to better understand CSO characteristic and post-upgrade  $CBOD_u$  /  $CBOD_5$  ratios in relation to TOC, etc.).*

Hence, if you are willing – we ask that you share your organization's recommended protocol / methods, which we will review and hopefully arrive at a consensus set of protocols to be used by IEC & USEPA.

If you don't plan to participate, please advise – since summer is fast approaching.

We will be sure to share the selected methods to all participating organizations.

**Thanks**

rick

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